

CHAPTER 8C

METAL AND WOOD WINDOWS

8C-01. SUBMITTALS

a. Shop Drawings

- (1) Check for specifics on each different type window, as:
  - (a) Thickness and dimensions
  - (b) Weather stripping
  - (c) Hardware
  - (d) Finish/factory priming
  - (e) Fasteners, anchorage and their compatibility with adjoining materials.
- (2) Check for the window schedule and compare it with the schedule on the drawings.
- (3) Calculations for anchorage of environmental control windows.

b. Certificates/Labels

- (1) Certified test reports on air and water infiltration thermal conductivity, condensation resistance and load tests must be provided for environmental control windows.
- (2) An Architectural Aluminum Manufacturing Association (AAMA) quality certification label on aluminum windows and storm windows may replace the certificate.
- (3) Performance certification labels on wood windows indicate they must comply with ANSI A200.1 provisions and requirements. Do they?

8C-02. MATERIALS

a. Screens

- (1) Check steel screens against Steel Window Institute (SWI) specifications.
- (2) Check aluminum screens against ANSI A134.1 requirements.
- (3) Look for screens on buildings which don't have combination storm-screen units.

b. Storm Windows

- (1) Must comply with provisions and requirements of ANSI A134 .3.
- (2) Check for vertical or horizontal sliding operation.
- (3) Is factory painted finish as specified or is aluminum mill finish?

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(4) Check for separation or isolation between steel prime windows and aluminum storm windows.

(5) Check for compatible fasteners. Those fasteners exposed must be aluminum or non-magnetic stainless steel.

c. Metal Prime Windows

(1) Aluminum

(a) Must comply with ANSI A134.1.

(b) Check for certificate on minimum condensation factor when double glazed. See AAMA 1502.6 for this requirement.

(c) Check A-A2 of A134.1 for awning windows. Awning windows are hinged at the top.

(d) For basement windows and other fixed windows check P-A2.

(e) Check C-A2 for casement windows.

(f) Check DH-A2 for double and single-hung type.

(g) Horizontal-sliding windows refer to HS-A2.

(h) Projected windows are similar to awning windows but have a different specification, P-A2. All sash or projected windows do not open as with awning type.

(i) Check TH-A2 for top-hinged windows.

(j) Vertically-pivoted windows refer to VP-A2.

(k) Check window finish for factory painted or anodized treatment. Check anodizing for quality and color.

(1) Temporary protective coating on aluminum must not be used on surfaces to receive sealants.

(2) Steel

(a) Check SWI specification for all types; including basement, casement, projected, classroom, security windows and others.

(b) Check for protective finish; either factory prime coat of paint on steel or over hot-galvanized steel.

d. Wood Prime Windows

(1) Check ANSI A200.1 for general and specific requirements.

(2) Windows will usually be single or double-hung type, although awning, casement or horizontal-sliding type may be specified.

(3) Wood windows shall be factory primed for finish painting.

(4) Check for extra hardware such as sash lifts, sash lock or latch and sash pulls.

e. Environmental Control Windows

(1) These are special aluminum windows which have a thermal-break in the frame and are double glazed with a slat-type venetian blind between the glass panes.

(2) Check thermal-break for 1/2-inch minimum separation. Barrier at break shall be weatherproof neoprene, rigid vinyl or polyurethane.

(3) Unit shall arrive fully assembled and glazed.

(4) Check normal operation and key controlled operations required.

(5) Check required finish. 8C-03 INSTALLATION

a. Anchors as specified shall be of compatible material for metal windows.

b. Protect aluminum window surfaces in contact with dissimilar materials as required in AAMA 302.9 provisions.

c. Check for unit alignment and plumbness.

d. Check operation and require adjustments as necessary.

e. Check for removal of temporary protective coating from aluminum on surfaces to receive sealant.

f. Check for required performance certification labels (wood windows) and quality certification labels (aluminum windows)

g. Window cleaning anchors may be required. Watch for:

(1) Specified anchor material.

(2) Frame reinforcement at anchors and additional window anchorage.

(3) Check requirement in ANSI A39.1.

h. Check AAMA 1302.5 for forced-entry resistant windows.